

108

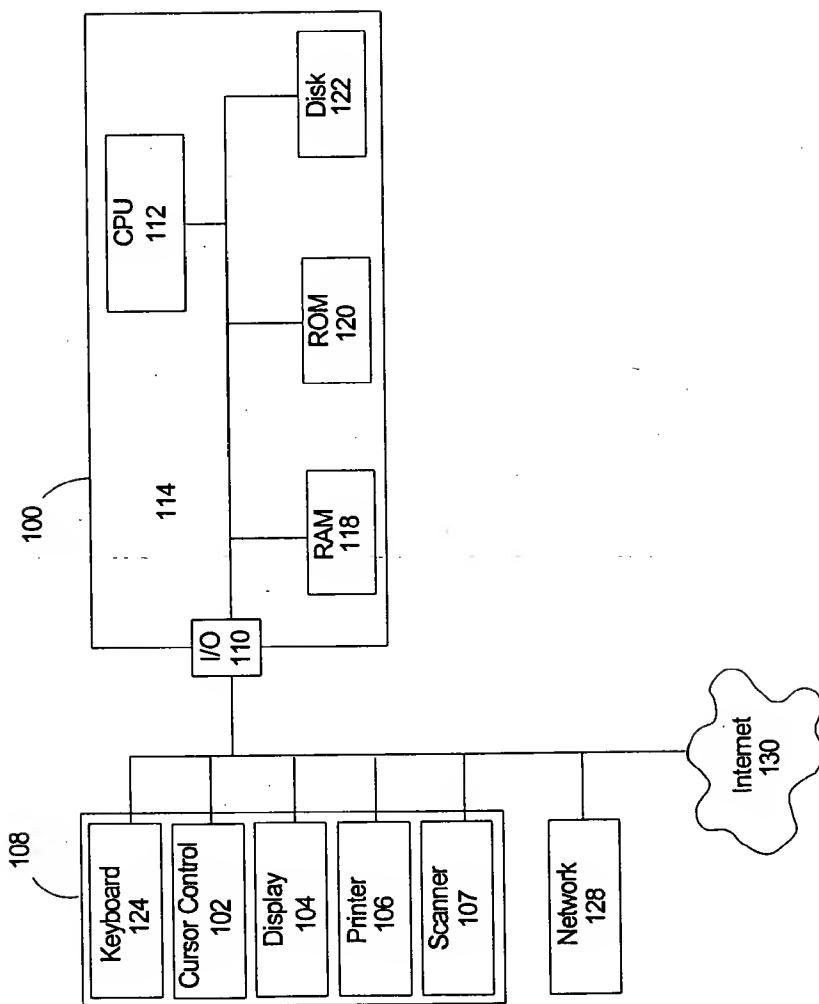


Figure 1

APPN. FILING DATE: NOVEMBER 30, 2001 SHEET 1 OF 8

TITLE: SINGLE-CHANNEL CONVOLUTED IN A VECTOR PROCESSING COMPUTER SYSTEM

INVENTOR(S): ALI SAZEGARI ET AL.

APPLICATION SERIAL NO: UNASSIGNED

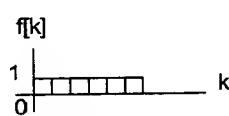


Figure 2A

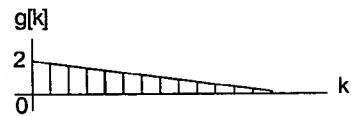


Figure 2B

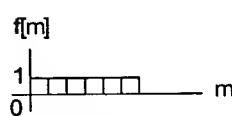


Figure 2C

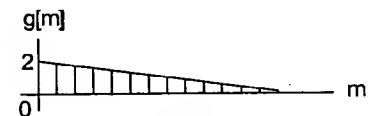


Figure 2D

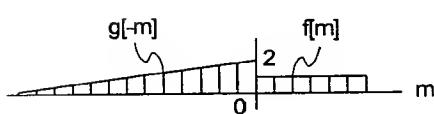


Figure 2E

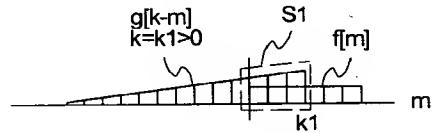


Figure 2F

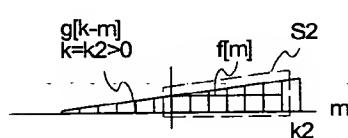


Figure 2G

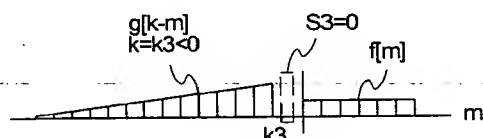


Figure 2H

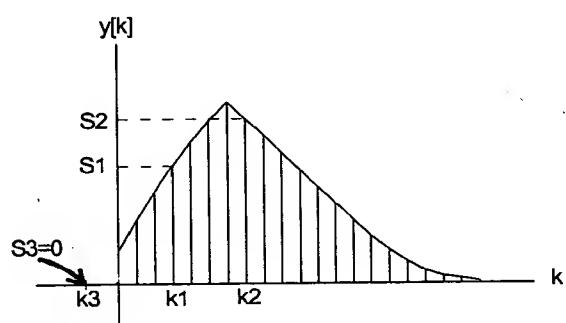


Figure 2I

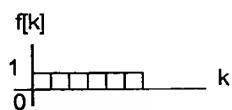


Figure 3A

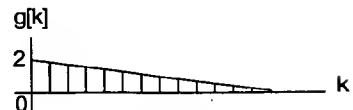


Figure 3B

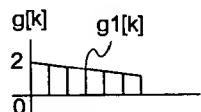


Figure 3C

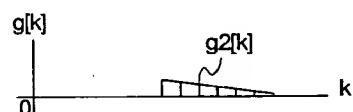


Figure 3D

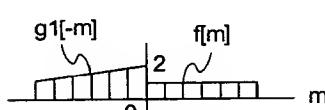


Figure 3E

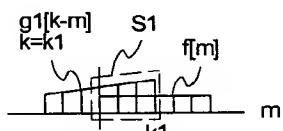


Figure 3F

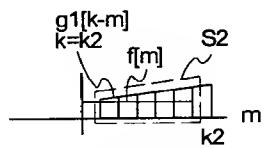


Figure 3G

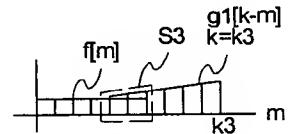


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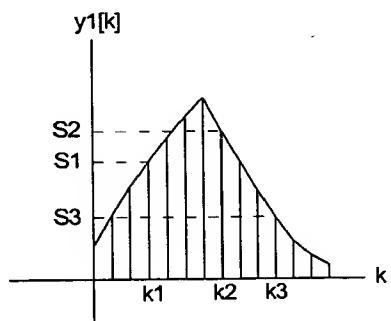


Figure 3I

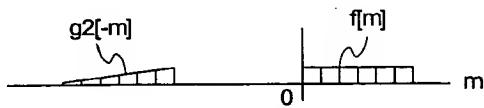


Figure 3J

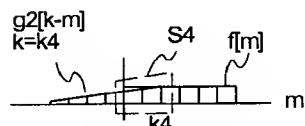


Figure 3K

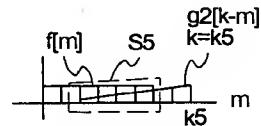


Figure 3L

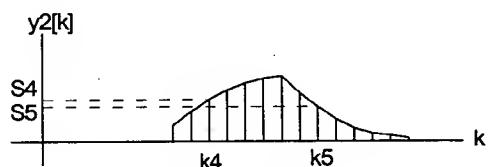


Figure 3M

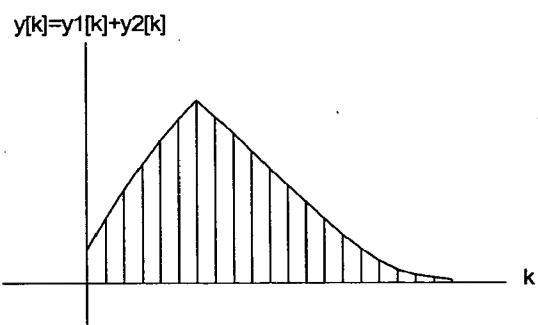


Figure 3N

T004TT "d" 296660

y[0] = g[0]  
y[1] = g[0] + g[1]  
y[2] = g[0] + g[1] + g[2]  
y[3] = g[0] + g[1] + g[2] + g[3]  
y[4] = g[0] + g[1] + g[2] + g[3] + g[4]  
y[5] = g[0] + g[1] + g[2] + g[3] + g[4] + g[5]  
y[6] = g[0] + g[1] + g[2] + g[3] + g[4] + g[5] + g[6]  
y[7] = g[1] + g[2] + g[3] + g[4] + g[5] + g[6] + g[7]  
y[8] = g[2] + g[3] + g[4] + g[5] + g[6] + g[7] + g[8]  
y[9] = g[3] + g[4] + g[5] + g[6] + g[7] + g[8] + g[9]

Figure 4

**Figure 5**

```
y[N-1] = g[N-7] + g[N-6] + g[N-5] + g[N-4] + g[N-3] + g[N-2] + g[N-1] + g[N]
y[N] = g[N-6] + g[N-5] + g[N-4] + g[N-3] + g[N-2] + g[N-1] + g[N]
y[N+1] = g[N-5] + g[N-4] + g[N-3] + g[N-2] + g[N-1] + g[N]
y[N+2] = g[N-4] + g[N-3] + g[N-2] + g[N-1] + g[N]
y[N+3] = g[N-3] + g[N-2] + g[N-1] + g[N]
y[N+4] = g[N-2] + g[N-1] + g[N]
y[N+5] = g[N-1] + g[N]
y[N+6] =
y[N+7] = 0
```

F O O D E T F " d z v g g g g g

	Column							
	1	2	3	4	5	6	7	8
Row	g[0]	g[1]	g[2]	g[3]	g[4]	g[5]	g[6]	g[7]
2	g[8]	g[9]	g[10]	g[14]	g[12]	g[13]	g[14]	g[15]
3	g[18]	g[17]	g[18]	g[19]	g[20]	g[28]	g[22]	g[23]
6	g[20]	g[25]	g[26]	g[27]	g[28]	g[29]	g[30]	g[31]
5	g[32]	g[33]	g[34]	g[35]	g[38]	g[37]	g[38]	g[39]
6	g[40]	g[44]	g[42]	g[43]	g[44]	g[49]	g[46]	g[47]
7	g[48]	g[49]	g[50]	g[51]	g[52]	g[53]	g[54]	g[55]
8	g[56]	g[57]	g[58]	g[59]	g[60]	g[61]	g[62]	g[63]

Figure 6A

APPLN. FILING DATE: NOVEMBER 30, 2001 SHEET 7 OF 8 APPLICATION SERIAL NO.: UNASSIGNED

INVENTOR(S): ALI SAZEGARI ET AL.

VECTORTOR PROCESSING COMPUTER SYSTEM

TITLE: SINGLE-CHANNEL CONVOLUTION IN A

APPLN. FILING DATE: NOVEMBER 30, 2001

	Column							
	1	2	3	4	5	6	7	8
Row	g[0]	g[9]	g[16]	g[24]	g[32]	g[40]	g[48]	g[56]
2	g[1]	g[9]	g[17]	g[25]	g[33]	g[41]	g[49]	g[57]
3	g[2]	g[14]	g[18]	g[26]	g[34]	g[42]	g[50]	g[58]
4	g[3]	g[4]	g[19]	g[27]	g[35]	g[43]	g[51]	g[59]
5	g[4]	g[12]	g[20]	g[28]	g[36]	g[44]	g[52]	g[60]
5	g[5]	g[13]	g[21]	g[29]	g[37]	g[45]	g[53]	g[61]
7	g[4]	g[14]	g[22]	g[30]	g[38]	g[45]	g[54]	g[62]
8	g[7]	g[15]	g[23]	g[31]	g[39]	g[47]	g[55]	g[63]

Figure 6B